

Title (en)  
LED WAYSIDE SIGNAL FOR A RAILWAY

Title (de)  
BAHNSEITIGER LED-SIGNAL FÜR EISENBAHN

Title (fr)  
DISPOSITIF DE SIGNALISATION EN BORDURE DE VOIE, DOTE DE DIODES ELECTROLUMINESCENTES ET DESTINE AU RAIL

Publication  
**EP 1259412 A1 20021127 (EN)**

Application  
**EP 00975285 A 20001027**

Priority  
• US 0028863 W 20001027  
• US 42935199 A 19991028

Abstract (en)  
[origin: US6435459B1] A wayside signal for a railway includes a plurality of light emitting diodes housed in a housing. The light emitting diodes output indication signals. Further, the light emitting diodes are configured on a first circuit board which is thermally coupled to the housing. The housing may also include heat sink fins to dissipate heat generated by the light emitting diodes and associated driving circuitry for driving the light emitting diodes also contained within the housing. An additional light emitting diode may also be contained within the housing to point in an opposite direction than the indication signal light emitting diodes, which additional light emitting diode may be formed on a second circuit board with the driving circuitry. The additional light emitting diode provides an indication to anyone behind the wayside signal as to the indication of the wayside signal. The wayside signal is further optimized for thermal efficiency and to be sealed against the elements. In regard to thermal efficiency, the first circuit board may be metal clad and the housing may be formed of black anodized aluminum. Also, a plastic insulator may be attached to the housing and covered with a lamp base. The lamp base may be configured to be inserted into a conventional socket for a wayside signal, so that the wayside signal of the present invention can be utilized with existing circuitry.

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**B61L 29/00**; **B61L 29/24**; **B61L 5/12**

IPC 8 full level  
**B61L 5/18** (2006.01)

CPC (source: EP US)  
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Cited by  
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**WO 0130634 A1 20010503**; AT E322418 T1 20060415; AU 1335901 A 20010508; CA 2387489 A1 20010503; CA 2387489 C 20061128; DE 60027205 D1 20060518; DE 60027205 T2 20070111; EP 1259412 A1 20021127; EP 1259412 A4 20040901; EP 1259412 B1 20060405; US 6435459 B1 20020820

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